



Best pitch award at the Nordic Innovation Fair in Copenhagen 2023

OrganAnalytics

Organ Transplant Quality Control

New Devices and Services for Research, Industry, and Healthcare

- Business Finland, Research to Business Grant, 795 k€, 1.8.2022 30.4.2024
- Novo Nordisk Foundation, Distinguished Innovator Grant, 4 MDKK, 1.5.2024 30.4.2026
- Spin-off planned for 2026

Jarno Tanskanen, Donna Kivirauma, and the Team

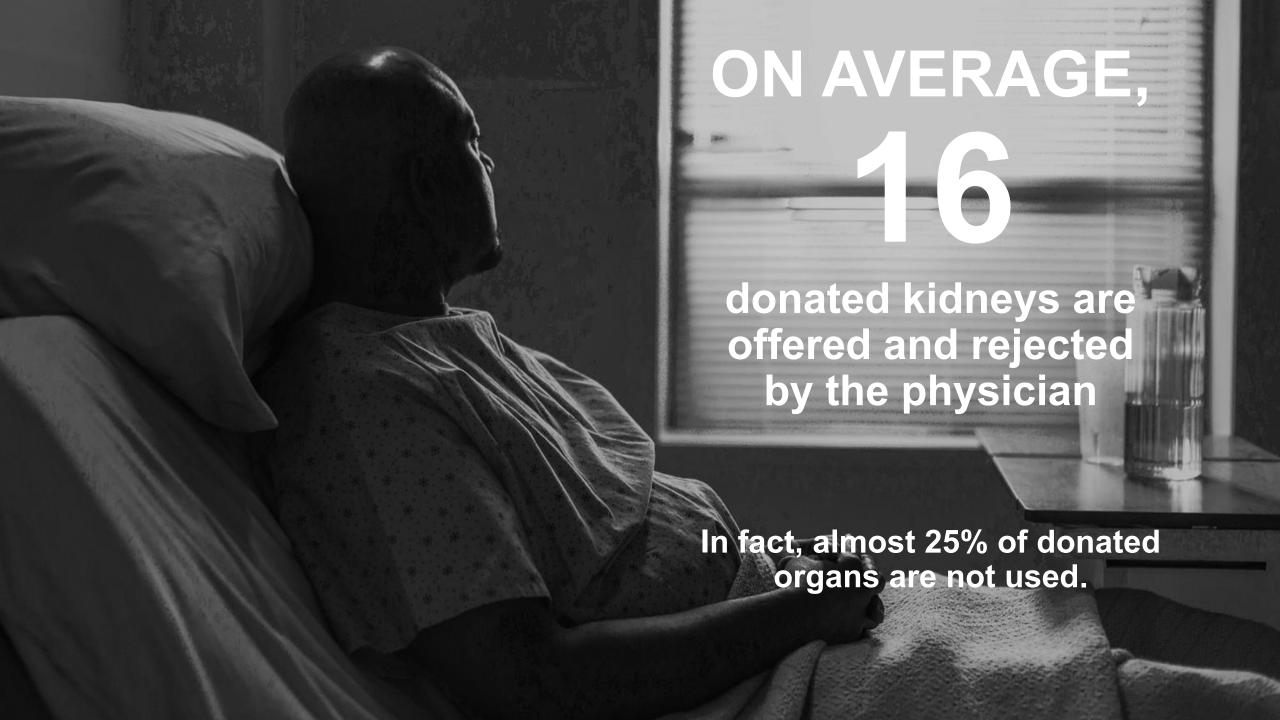
Computational Biophysics and Imaging Group
BioMediTech and Faculty of Medicine and Health Technology
Tampere University, Finland

Email: donna.kivirauma@tuni.fi http://organanalytics.com/

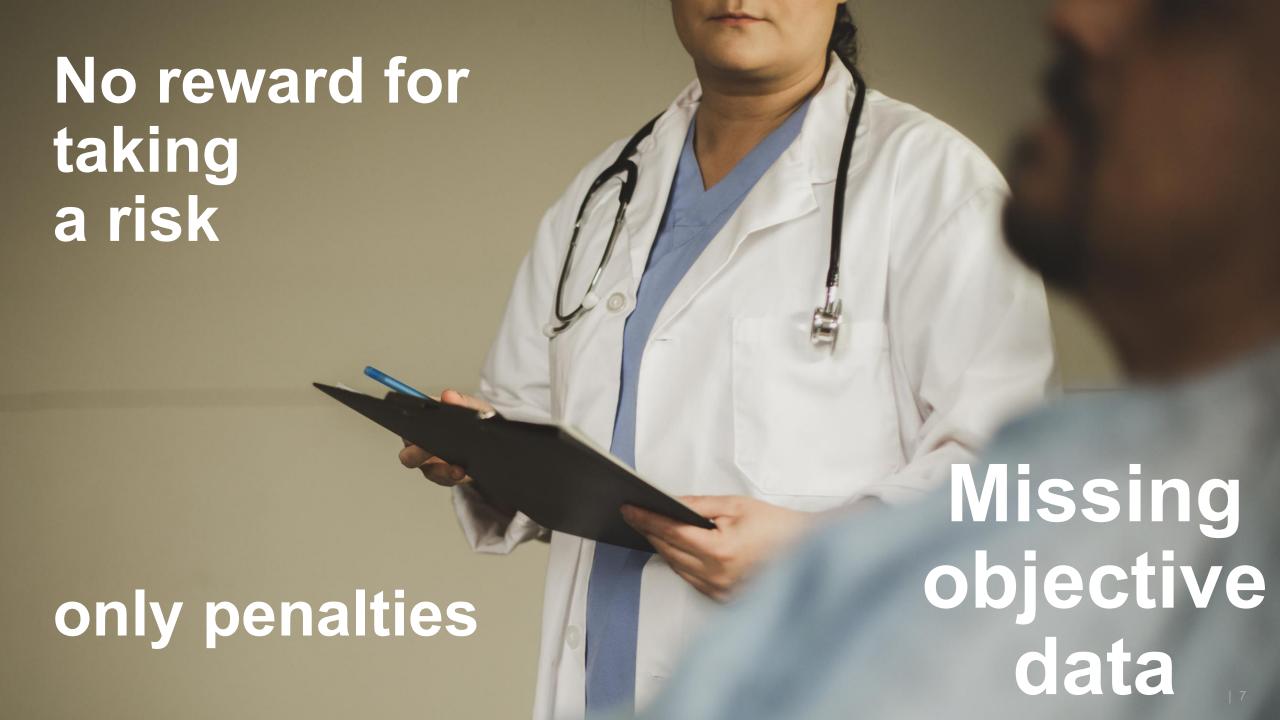
















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OrganAnalytics

Reviving Hope, One Organ at a Time:

Confidence in Every Decision



OrganAnalytics is developing technology that can assess the degradation of a transplant organ from procurement to implantation



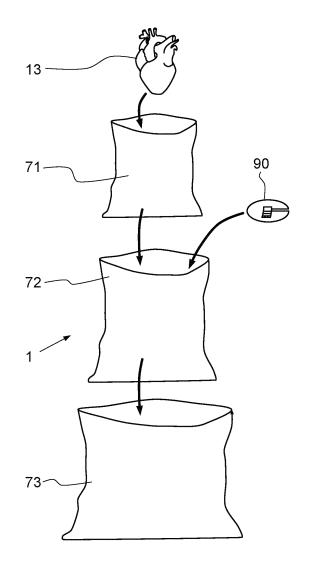
OrganAnalytics Team Leader Dr. Jarno Tanskanen investigating a fresh porcine liver in our laboratory.

OrganAnalytics is developing a sensor technology that is non-invasive and provides real-time data about tissue degradation.

- Baseline measurement at procurement
- Continuous measurement during transport
- On-the-spot measurement in the implantation operating room

Our technology is expected to be a **Class IIa medical device** in the EU, and in the US, a **De Novo Breakthrough Device is indicated.**

Tampere University



A schematical illustration of one exemplary system for transporting organs by the organ container with a sensor (Fig. 11 of WO2024251504).

IP owned by Tampere University IP transferable to an exploiting entity, e.g., a spin-off

Finnish Patent No. 131670

AN ORGAN CONTAINER, AN IMPEDANCE METER FOR THE ORGAN CONTAINER, AND A METHOD FOR DEFINING A DETERIORATION STATE OF AN ORGAN

- Patent granted September 4, 2025
- FI 131670 B1: https://patenttitietopalvelu.prh.fi/opendata/patent/document/2023/2023565 1/FI131670-B1-JULK.pdf

International PCT Patent Application No. PCT/EP2024/063790 WO2024251504 - AN ORGAN CONTAINER, AN IMPEDANCE METER FOR THE ORGAN CONTAINER, AND A METHOD FOR DEFINING A DETERIORATION STATE OF AN ORGAN

- Filed May 17, 2024
- Priority claimed from the Finnish patent application
- https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2024251504



Currently Available Technology

X Requires invasive procedures that cause damage to tissue

or

- X Interpretation is highly subjective
- Tissue viability information is not available in real-time

X No degradation monitoring in current organ preservation devices such as perfusion and cold storage devices

OrganAnalytics Advantages

- ✓ Non-contact
- ✓ Electrical measurements with low amplitude excitation that have no known harmful effects
- ✓ Objective data
- Degradation is measured and information available in real-time and continuously, also during transport
- Our technology can be realized as a stand-alone device or integrated into existing organ preservation devices such as perfusion devices





Where we are right now and where we are heading



Current State: TRL 3-4 (laboratory proof of concept using a porcine model)



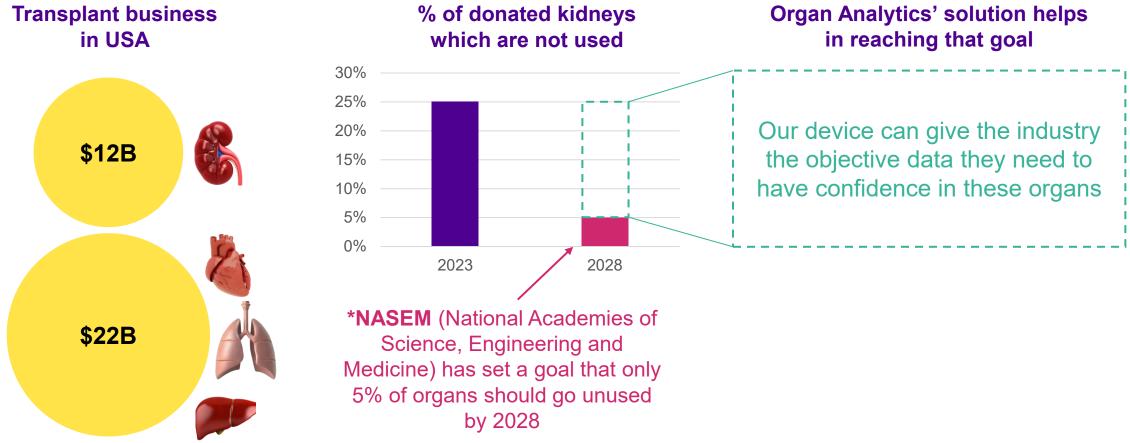
Advancing to TRL 7 (prototype demonstrated in an operational environment) in two years



Approximately 3-5 years to an FDA approved medical device on the market



Our device can save lives... and help increase revenue for the US transplant business by \$10B annually



^{*} https://nap.nationalacademies.org/catalog/26364/realizing-the-promise-of-equity-in-the-organ-transplantation-system



OrganAnalytics benefits to organ transplant stakeholders



Patient: Thousands more patients receive a life-saving organ transplant for better quality of life



Payor: Medicare can save at least \$1B annually on kidney patient care*

Transplant Centers: Potential to increase transplant business in the US by **\$10B**



Go-To-Market Strategy

Phase I

License technology to an organ transport device manufacturer, e.g., Organ Recovery Systems, Xvivo, Paragonix, OrganOx.

We will select one so that we can get our technology through the FDA process and validated.

Phase II

Manufacture our own sensors/containers for organ transport device manufacturers outside the Phase I license coverage.

Revenue from licensing and sensors & containers and data systems to monitor the organs while in transport.

Phase III

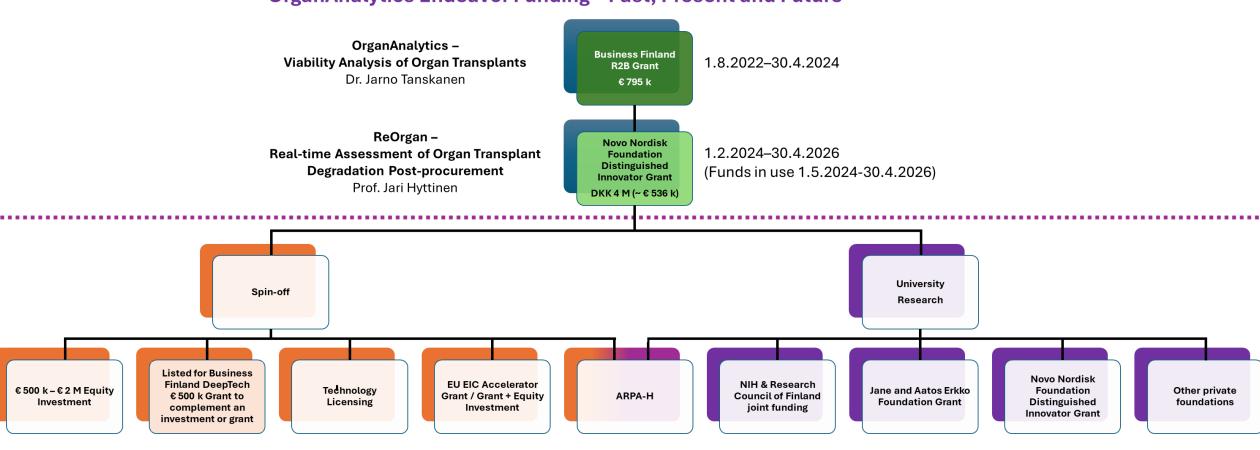
Sensors and data systems for cold box transplant transports, also for low- and middle-income countries.

Explore other applications for our sensors, e.g., surgical applications, fish, sushi and meat monitoring.



Previous Grants & Short-term Funding Options (Not Mutually Exclusive)

OrganAnalytics Endeavor Funding - Past, Present and Future





External Advisors



Kevin Myer, M.Sc.

President and Chief Executive Officer LifeGift, Texas, USA

(Earlier e.g., Business Director, United Network for Organ Sharing (UNOS), VA, USA)

Organ Sharing & Procurement Business Management



Alexander Spicer

M&A Associate SERB Pharmaceuticals, France

Owner, Spicer & Spicer Ltd, UK

(Earlier e.g., Business Development and Licensing Director, Faron Pharmaceuticals Ltd, Finland)

Supporting Biotechnology Companies



Our **Team**



Jarno Tanskanen Ass. Prof., D.Sc. Team Leader



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Jari Hyttinen, Prof., Ph.D. **Active Advisor**



Mari Lehti-Polojärvi, D.Sc. Experimentation Expert – Organs



Annika Ahtiainen, Ph.D. Experimentation Expert – **Tissue Engineering**



Design Engineer



Ilmari Tamminen, M.Sc. Sanna Halonen, M.Sc. Sensor Engineer